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and taxonomic relationships of the principal groups of marsupials accompanies the discussion.

The essential points in Doctor Osgood's carefully prepared summary of his studies of *Cænolestes*, briefly stated, are: 1. *Cænolestes* is a surviving member of an ancient group and retains many primitive characters. 2. It has numerous resemblances to modern peramelids. 3. It has few non-marsupial characters and no great degree of specialization. 4. It has no especial affinity to the American Didelphiidae. 5. The ancestor of the *cænolestids* was probably a northern form which had already separated from the generalized polyprotodont stock. 6. The North American ancestor of the *cænolestids* possibly extended throughout Holarctica and therefore may also have given rise to the Australian diprotodonts. 7. The phylogenetic and morphological relations of *Cænolestes* are best expressed by classifying it in the suborder Diprotodontia, family Palæothentidæ, subfamily *Cænolestinae*.

The text closes with six pages on the brain of *Cænolestes obscurus*, by Dr. C. Judson Herrick, professor of neurology, University of Chicago. The figures in the plates are well executed (the line drawings of muscles and soft parts are credited to R. E. Snodgrass, a sufficient guarantee of accuracy), and each plate is faced by a lettered reference page so that, in using the work, it is unnecessary to search constantly for a special "explanation of plates." There is, unfortunately, no index.

—N. Hollister.

King, Helen Dean. A COMPARATIVE STUDY OF THE BIRTH MORTALITY IN THE ALBINO RAT AND IN MAN. *Anat. Record*, vol. 20, pp. 321-354. March 20, 1921.

A summary of the results of Doctor King's valuable experiments shows that during a period of 5 years in a total of 31,670 newborn albino rats 415, or 1.3 per cent, were stillborn. Under normal environmental conditions not more than 2 per cent of rat fetuses are dead at birth. Normal birth mortality in man is about 4 per cent. There are no data regarding percentage of stillbirths in other mammals. The normal sex ratio in newborn albino rats, including stillborn, is about 107 males to 100 females. The average in man is about 108 males to 100 females. Doctor King found an excess of males among stillborn in rats, the ratio being 129.3 males to 100 females. Sex ratio among stillborn children is about 130 to 140 boys to 100 girls. In the rat the percentage of stillbirths seems to vary somewhat with the seasons, being greatest in the autumn and least in the spring. It appears that malnutrition is directly responsible for most of the stillbirths.

—Hartley H. T. Jackson.

Johnston, T. B. THE ILEO-CAECAL REGION OF *CALICEBUS PERSONATUS*, WITH SOME OBSERVATIONS ON THE MORPHOLOGY OF THE MAMMALIAN CAECUM. *Journ. Anat. (London)*, vol. 54, part I, pp. 66-78. 1919.

These studies are based chiefly on the Brazilian mammals *Calicebus personatus*, *Dasyurus sexinctus*, *Tatusia novemcincta*, and *Cyclothurus didactylus*. In *Calicebus* the caecum is an actively functioning part of the alimentary canal. The paired lateral caeca of *Dasyurus sexinctus* and *D. villosus* are regarded as the

extremities of a bifid caecum, but those of *Cyclothurus* are new formations which do not correspond to the morphological caecum. The primitive mammalian caecum was an asymmetrical structure derived from the anti-mesenteric border of the colon.

—A. H. Schultz.

Nomai, J. DAS STIMMORGAN DER PRIMATEN. *Anatom. Hefte*, vol. 59, 1. Abt., pp. 257-292. 1920.

This study shows the generally high development of the larynx in primates. The laryngeal cartilages in monkeys and apes resemble closely those structures in man, but the vocal lips are quite different. The arytaenoid cartilages are slender and delicate when compared with those of lemurs and all other mammals.

—A. H. Schultz.

Doflein, F. DIE FORTPFLANZUNG, DIE SCHWANGERSCHAFT UND DAS GEBÄREN DER SÄUGETIERE. Jena, 70 pp. 1920.

A richly illustrated good review of our knowledge of fertilization, implantation, placentation, pregnancy, and birth in mammals. The paper contains no actually new facts but constitutes a new presentation and welcome collection of widely scattered data.

—A. H. Schultz.

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ASOMI, GOICHI. Observations on the follicular atresia in the rabbit ovary. *Anat. Rec.*, vol. 18, no. 4, pp. 323-343. May 20 (June), 1920.

BALDWIN, FRANCIS MARSH. Notes on the branches of the aorta (arcus aortae) and the subclavian artery of the rabbit. *Anat. Rec.*, vol. 19, pp. 173-183, 11 figs. July 20, 1920.

BLACK, DAVIDSON. Studies on endocranial anatomy. II. On the endocranial anatomy of *Oreodon* (*Merycoidodon*). *Journ. Comp. Neurology*, vol. 32, pp. 271-327, 48 figs. December, 1920. (Concludes that *Oreodon* was a primitive artiodactyl, presenting a curious blending of suilline and ruminant characters; any edentate resemblances are of a superficial nature.)

BURRELL, HARRY. Preliminary note on the breeding of *Ornithorhynchus* in 1920. *Australian Zool.*, vol. 2, pt. 2, pp. 20-23, 2 plates. April 11, 1921. (Of the 11 nests studied, 6 contained eggs and 5 contained young; the number of eggs ranges from 1 to 3.)

CADWALDER, WILLIAMS B. Forty-ninth annual report of the Board of Directors of the Zoological Society of Philadelphia. Pp. 1-50. 1921. (Includes report of Dr. Herbert Fox, pathologist.)

COOPER, A. R. A case of the inferior vena cava uniting with the azygos vein in the dog. *Anat. Rec.*, vol. 17, pp. 299-306, 2 figs. January 20 (February), 1920.

DREYER, W. Vejleder i Zoologisk Have. Pp. 1-72, many figs. Kjöbenhavn, 1921. (Guide to the Copenhagen zoological gardens.)

GILLESPIE, T. H. Annual report of the Zoological Society of Scotland for the year ending 31st March 1921. Pp. 1-20, 8 plates. 1921.

HAAGNER, ALWIN. South African mammals. A short manual for the use of field naturalists, sportsmen and travellers. Pp. i-xx; 1-248; many illustrations. London; H. F. & G. Witherby. 1920.

— National zoological gardens of South Africa, Pretoria. Report for the years 1919-1920. 23 pp. 1921.

HANSON, FRANK BLAIR. The development of the sternum in *Sus scrofa*. Anat. Rec., vol. 17, pp. 1-23, 19 figs. September 20, 1919.

— The development of the shoulder-girdle of *Sus scrofa*. Anat. Rec., vol. 18, no. 1, pp. 1-21. February 20 (March), 1920.

— The problem of the coracoid. Anat. Rec., vol. 19, pp. 327-345, 7 figs. November 20, 1920.

HARKIN, J. B. Report of the commissioner of Dominion parks for the year ending March 31, 1920. Pp. 1-53, numerous half-tones. Ottawa, 1921. (Reports a general increase in game mammals in all reservations.)

HERRICK, C. JUDSON. The brain of *Cænolestes obscurus*. Field Mus. Nat. Hist., Zoöl. Ser., vol. 14, no. 1, pp. 157-162; pls. 21-22. May, 1921.

HINTON, MARTIN A. C. A new bank-vole from Estonia. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 128-129. July, 1921. (Describes *Evotomys glareolus reinwaldti*, subsp. nov.)

— The klipspringers of Rhodesia, Angola, and northern Nigeria. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 129-133. July, 1921. (New: *Oreotragus oreotragus centralis*, Rhodesia; *O. o. tyleri*, Angola; and *O. o. hyatti*, Nigeria.)

HOLLISTER, N. A new name for the West African pygmy squirrel. Proc. Biol. Soc. Washington, vol. 34, p. 135. June 30, 1921. (*Myosciurus minutulus* for *Sciurus minutus* Du Chaillu, preoccupied.)

HORNADAY, WILLIAM T. The fur trade and wild animals. Wisconsin Conservationist, vol. 3, no. 2, pp. 5-6. May, 1921. (Considers fur-bearing animals in danger of extermination, but believes that there is yet hope of saving a remnant of them.)

HUNTINGTON, GEORGE S. The morphology of the pulmonary artery in the Mammalia. Anat. Rec., vol. 17, pp. 165-201, 7 figs (5 colored). December 20, 1919 (January, 1920).

HUNTINGTON, GEORGE S., AND CHARLES F. W. McCLORE. The development of the veins in the domestic cat (*Felis domestica*) with especial reference, (1) to the share taken by the supracardinal veins in the development of the postcava and azygos veins and (2) to the interpretation of the variant conditions of the postcava and its tributaries, as found in the adult. Anat. Rec., vol. 20, pp. 1-30, 12 figs. in colors. December 20, 1920.

KERSHAW, P. S. On the collection of South African mammals in the Durban Museum. Ann. Durban Mus., vol. 3, pt. 1, pp. 27-38. January 31, 1921. (New: *Pachyura chriseos* and *Sylvisorex gemmeus sheppardi*.)

KITTELSON, JOHN A. Effects of inanition and refeeding upon the growth of the kidney of the albino rat. Anat. Rec., vol. 17, pp. 281-295. January 20 (February), 1920.

KLOSS, C. BODEN. Two new *Leggada* mice from Siam. Journ. Nat. Hist. Soc. Siam, vol. 4, pp. 59-63. March, 1921. (Key to Indochinese genera of *Mus*-like rodents. New species and subspecies: *Leggada pahari gairdneri* and *L. rahengis*, both from Me Taw, western Siam.)

KLOSS, C. BODEN. On *Rattus blythi* Kloss (*Mus cinnamomeus* Blyth). With remarks on allied forms. *Journ. Nat. Hist. Soc. Siam*, vol. 4, pp. 65-69. March, 1921.

\_\_\_\_\_. A new giant squirrel from Pulo Condore. *Journ. Nat. Hist. Soc. Siam*, vol. 4, pp. 71-72. March, 1921. (Describes *Ratufa melanopepla condorensis*.)

\_\_\_\_\_. The Pulo Condore group and its mammals. *Journ. Nat. Hist. Soc. Siam*, vol. 4, pp. 73-83. March, 1921. (List of 9 species of mammals, with critical notes.)

\_\_\_\_\_. On a small collection of mammals from Cambodia. *Journ. Nat. Hist. Soc. Siam*, vol. 4, pp. 99-102. March, 1921. (New: *Tamiops macclandii dolphoides*, from southwestern Cambodia.)

\_\_\_\_\_. Two new races of *Sciurus finlaysoni*. *Journ. Nat. Hist. Soc. Siam*, vol. 4, pp. 103-104. March, 1921. (Describes *S. f. prachin*, Krabin, Central Siam, and *S. f. rajasima*, Lat Bua Kao, Eastern Siam.)

\_\_\_\_\_. A habitat of Schomburgk's deer (*Cervus schomburgki*). *Journ. Nat. Hist. Soc. Siam*, vol. 4, p. 105. March, 1921.

\_\_\_\_\_. Malaysian bearded pigs. *Journ. Straits Branch, Royal Asiatic Soc.*, no. 83, pp. 147-150. April, 1921. (Remarks on *Sus barbatus*, *Sus oi*, and other wild pigs of Borneo and Sumatra.)

\_\_\_\_\_. A new squirrel from North Sarawak. *Journ. Straits Branch, Royal Asiatic Soc.*, no. 83, pp. 151-152. April, 1921. (*Sciurus adamsi*, sp. nov., Long Mujan, North Sarawak, Borneo.)

KOLMER, W. Über die Tastorgane von *Elephas indicus*. *Anat. Anz.*, vol. 54, no. 5, pp. 73-77. May 22, 1921.

KRAATZ, WALTER C. A preliminary general survey of the macrofauna of Mirror Lake on the Ohio State University campus. *Ohio Journ. Sci.*, vol. 21, no. 5, pp. 137-184. March, 1921. (Mentions occurrence of muskrat and Norway rat.)

KUNTZ, ALBERT. The innervation of the gónads in the dog. *Anat. Rec.*, vol. 17, pp. 203-219, 4 figs. December 20, 1919 (January, 1920).

\_\_\_\_\_. Experimental degeneration in the testis of the dog. *Anat. Rec.*, vol. 17, pp. 221-234, 4 figs. December 20, 1919 (January, 1920).

LÖNNBERG, EINAR. A second contribution to the mammalogy of Ecuador with some remarks on *Cænolestes*. *Arkiv f. Zool.*, vol. 14, no. 4, pp. 1-104, 1 plate and 8 text figs. 1921. (New: *Nasua gualeae*, *Dactyliomys dactylinus modestus*, *Myoprocta exilis parva*, *Coelogenys paca guanta*, *Dinomys branickii occidentalis*, *Dicotyles pecari aequatoris*, *Lonchoglossa wiedi aequatoris*, *Nasua nasua söderströmii*, *N. henseli*, and *N. h. cinerascens*.)

MATTHEW, W. D. The Cannonball Lance formation. *Science*, n. s., vol. 54, pp. 27-29. July 8, 1921.

\_\_\_\_\_. Notes on the scientific museums of Europe. *Nat. Hist.*, vol. 21, pp. 185-190. March-April, 1921.

MCATEE, W. L. The selection of family names in zoology. *Journ. Washington Acad. Sci.*, vol. 11, pp. 230-235. May 19, 1921. (Argues for family names based on the oldest available generic name.)

MILLER, GERRIT S., JR., AND N. HOLLISTER. Twenty new mammals collected by H. C. Raven in Celebes. *Proc. Biol. Soc. Washington*, vol. 34, pp. 93-104. June 30, 1921. (New genera and species: *Melasmotherix naso* and

*Eropeplus canus*. New species and subspecies of *Lenomys*, *Rattus*, *Sciurus*, *Harpyionycteris*, *Pteropus*, *Cheiromysles*, *Crocidura*, and *Tarsius*.)

MITCHELL, P. CHALMERS. Official guide to the gardens of the Zoological Society of London. Nineteenth edition. 112 pp., 52 illust. 1921.

NELSON, EDWARD W. Lower California and its natural resources. Mem. Nat. Acad. Sci., vol. 16, no. 1, pp. 1-194; 34 plates and folding map. 1921. (Contains many references to mammals; maps and definitions of life zones.)

OSBORN, HENRY FAIRFIELD. First appearance of the true mastodon in America. Amer. Mus. Novit., no. 10, pp. 1-6; figs. 1-2. June 15, 1921. (Describes *Mastodon matthevi*, Sioux County, Nebraska; and *M. merriami*, Humboldt County, Nevada.)

— The first appearance of the true mastodon in America. Science, n. s., vol. 54, p. 108. August 5, 1921.

PIRES DE LIMA, J. A. Anatomy of a fetus of a cyclopean goat. Anat. Rec., vol. 19, pp. 73-81, 6 figs. July 20, 1920.

ROTHSCHILD, LORD. On two new races of *Oryx*. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 209-210. August, 1921. (Describes *Oryx gazella blainvii* from Angola, and *O. g. subcallotis* from southern British East Africa.)

RUTLEDGE, ARCHIBALD. Plantation game trails. 300 pp., 12 pls. The Riverside Press, Cambridge, Mass. February, 1921. (Largely devoted to accounts of hunting the white-tailed deer near the mouth of the Santee River, South Carolina. Contains notes on habits of the deer, otter, and fox squirrel.)

SCOTT, H. H., AND CLIVE E. LORD. Nototheria and allied animals,—a rejoinder. Papers of the Royal Soc. Tasmania, pp. 5, pls. 3, issued separately, May 14, 1921.

SHIRAS, GEORGE, 3RD. The wild life of Lake Superior, past and present. Nat. Geog. Mag. vol. 40, no. 2, pp. 114-204; 76 illustrations. August, 1921. (Includes notes on habits of deer, moose, wolves, beavers, and muskrats.)

SIPERSTEIN, DAVID M. The effects of acute and chronic inanition upon the development and structure of the testis in the albino rat. Anat. Rec., vol. 20, pp. 355-391, 14 figs. March 20, 1921.

SOUCHON, EDMOND. A new permanent solution for the preservation of anatomic preparations, the Souchon solution of calcium chloride. Anat. Rec., vol. 18, no. 4, p. 361. May 20 (June), 1920.

STANLEY, PAUL C. Albinism in the black bear. Science, n. s., vol. 54, p. 74. July 22, 1921.

TAYLOR, WALTER P. *Thomomys douglasii shawi*, a new subspecies of pocket gopher from Mount Rainier, Washington. Proc. Biol. Soc. Washington, vol. 34, pp. 121-122. June 30, 1921.

THOMAS, OLDFIELD. Three new species of *Marmosa*, with a note on *Didelphys waterhousei*, Tomes. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 519-523. June, 1921. (New: *Marmosa bruchi*, San Luis, Argentina; *M. verax*, Mision, Paraguay; and *M. mimetra*, Santo Domingo, Ecuador.)

— The tuco-tuco of San Juan, Argentina. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, pp. 523-524. June, 1921. (*Ctenomys coludo johannis*, subsp. nov.)

— The Arctonyx of Annam. Ann. and Mag. Nat. Hist., ser. 9, vol. 7, p. 524. June, 1921. (Describes *Arctonyx annaeus* from Nha-trang, Annam.)

THOMAS, OLDFIELD. *Choiropotamus versus* *Koiropotamus*. Proc. Biol. Soc. Washington, vol. 34, p. 135. June 30, 1921. (Maintains that *Choiropotamus* is the tenable name of the river hogs.)

— The geographical races of *Herpestes brachyurus*, Gray. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 134-136. July, 1921. (New: *Herpestes brachyurus sumatrius*, Sumatra; *H. b. rajah*, lowlands of Sarawak, Borneo; *H. b. dyacorum*, mountains of Sarawak, Borneo.)

— A new genus of opossum from southern Patagonia. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 136-139. July, 1921. (New genus and species: *Notodelphys halli*, from Cape Tres Puntas, Patagonia.)

— A new bat of the genus *Promops* from Peru. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, p. 139. July, 1921. (Describes *Promops davisoni* from Department of Lima, Peru.)

— On spiny rats of the *Proechimys* group from south-eastern Brazil. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 140-143. July, 1921. (New subgenus: *Trinomys*; new subspecies: *Proechimys albispinus sertorius*, Bahia, Brazil.)

— The "huron" of the Argentine. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 212-213. August, 1921. (New: *Grisonella huronax* from Mar del Plata, Argentina.)

— On mammals from the province of San Juan, western Argentina. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 214-221. August, 1921. (Describes new forms of *Grisonella*, *Abrocoma*, *Octomys*, *Ctenomys*, and *Lagidium*.)

— Two new Argentine forms of skunk. Ann. and Mag. Nat. Hist., ser. 9, vol. 8, pp. 221-222. August, 1921. (New: *Conepatus suffocans pampanus* and *C. s. mendosus*.)